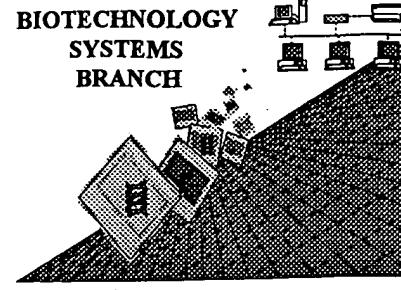


*Nicks*

## RAW SEQUENCE LISTING ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/451,939A

Source: 1642

Date Processed by STIC: 7/2/2000

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**THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.**

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**PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY  
EITHER:**

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT  
COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY  
or,**
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT,  
WITH A NOTICE TO COMPLY**

**FOR FURTHER INFORMATION, PLEASE TELEPHONE MARK SPENCER,  
703-308-4212.**

**TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER  
VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND  
TRADEMARK OFFICE WEBSITE. SEE BELOW:**

### **Checker Version 3.0**

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

**Checker Version 3.0 can be down loaded from the USPTO website at the following address:**  
**<http://www.uspto.gov/web/offices/pac/checker>**

G.Nickol

1642

RAW SEQUENCE LISTING DATE: 07/12/2000  
 PATENT APPLICATION: US/09/451,739A TIME: 15:56:26

Input Set : A:\lud-5615.txt  
 Output Set: N:\CRF3\07122000\I451739A.raw

1 <110> APPLICANT: Jager, Dirk  
 2 Scanlan, Matthew  
 3 Gure, Ali  
 4 Jager, Elke  
 5 Knuth, Alexander  
 6 Old, Lloyd  
 7 Chen, Yao-tseng  
 9 <120> TITLE OF INVENTION: Isolated Nucleic Acid Molecules Encoding Cancer Associated Antigens,  
 10 the Antigens per se, and Uses Thereof  
 12 <130> FILE REFERENCE: LUD 5615  
 14 <140> CURRENT APPLICATION NUMBER: 09/451,739A  
 16 <141> CURRENT FILING DATE: 1999-11-30  
 18 <160> NUMBER OF SEQ ID NOS: 19

## ERRORED SEQUENCES

527 <210> SEQ ID NO: 16  
 528 <211> LENGTH: 528  
 529 <212> TYPE: PRT  
 530 <213> ORGANISM: Homo sapiens  
 531 <220> FEATURE:  
 532 <400> SEQUENCE: 16  
 533 Met Lys Val Ser Ile Pro Thr Lys Ala Leu Glu Leu Met Asp Met Gln  
 534 1 5 10 15  
 536 Thr Phe Lys Ala Glu Pro Pro Glu Lys Pro Ser Ala Phe Glu Pro Ala  
 537 20 25 30  
 539 Ile Glu Met Gln Lys Ser Val Pro Asn Lys Ala Leu Glu Leu Lys Asn  
 540 35 40 45  
 542 Glu Gln Thr Leu Arg Ala Asp Glu Ile Leu Pro Ser Glu Ser Lys Gln  
 543 50 55 60  
 545 Lys Asp Tyr Glu Glu Ser Ser Trp Asp Ser Glu Ser Leu Cys Glu Thr  
 546 65 70 75 80  
 548 Val Ser Gln Lys Asp Val Cys Leu Pro Lys Ala Thr His Gln Lys Glu  
 549 85 90 95  
 551 Ile Asp Lys Ile Asn Gly Lys Leu Glu Ser Pro Asp Asn Asp Gly  
 552 100 105 110  
 554 Phe Leu Lys Ala Pro Cys Arg Met Lys Val Ser Ile Pro Thr Lys Ala  
 555 115 120 125  
 557 Leu Glu Leu Met Asp Met Gln Thr Phe Lys Ala Glu Pro Pro Glu Lys  
 558 130 135 140  
 560 Pro Ser Ala Phe Glu Pro Ala Ile Glu Met Gln Lys Ser Val Pro Asn  
 561 145 150 155 160  
 563 Lys Ala Leu Glu Leu Lys Asn Glu Gln Thr Leu Arg Ala Asp Gln Met  
 564 165 170 175  
 566 Phe Pro Ser Glu Ser Lys Gln Lys Lys Val Glu Asn Ser Trp Asp  
 567 180 185 190

Does Not Comply  
 Corrected Diskette Needed

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WJK

(512 shown (next page))

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/451,739A

DATE: 07/12/2000  
TIME: 15:56:26

Input Set : A:\lud-5615.txt  
Output Set: N:\CRF3\07122000\I451739A.raw

569 Ser Glu Ser Leu Arg Glu Thr Val Ser Gln Lys Asp Val Cys Val Pro  
570 195 200 205  
572 Lys Ala Thr His Gln Lys Glu Met Asp Lys Ile Ser Gly Lys Leu Glu  
573 210 215 220  
575 Asp Ser Thr Ser Leu Ser Lys Ile Leu Asp Thr Val His Ser Cys Glu  
576 225 230 235 240  
578 Arg Ala Arg Glu Leu Gln Lys Asp His Cys Glu Gln Arg Thr Gly Lys  
E--> 579 260 245 265 250 270 255  
581 Met Glu Gln Met Lys Lys Phe Cys Val Leu Lys Lys Lys Leu Ser  
E--> 582 275 260 280 265 285 270  
584 Glu Ala Lys Glu Ile Lys Ser Gln Leu Glu Asn Gln Lys Val Lys Trp  
E--> 585 290 275 295 280 280 285  
587 Glu Gln Glu Leu Cys Ser Val Arg Leu Thr Leu Asn Gln Glu Glu Glu  
E--> 588 305 310 315 320  
590 Lys Arg Arg Asn Ala Asp Ile Leu Asn Glu Lys Ile Arg Glu Glu Leu  
E--> 591 325 330 335  
593 Gly Arg Ile Glu Glu Gln His Arg Lys Glu Leu Glu Val Lys Gln Gln  
E--> 594 340 345 350  
596 Leu Glu Gln Ala Leu Arg Ile Gln Asp Ile Glu Leu Lys Ser Val Glu  
E--> 597 355 360 365  
599 Ser Asn Leu Asn Gln Val Ser His Thr His Glu Asn Glu Asn Tyr Leu  
E--> 600 370 375 380  
602 Leu His Glu Asn Cys Met Leu Lys Lys Glu Ile Ala Met Leu Lys Leu  
E--> 603 385 390 395 400  
605 Glu Ile Ala Thr Leu Lys His Gln Tyr Gln Glu Lys Glu Asn Lys Tyr  
E--> 606 405 410 415  
608 Phe Glu Asp Ile Lys Ile Leu Lys Glu Lys Asn Ala Glu Leu Gln Met  
E--> 609 420 425 430  
611 Thr Leu Lys Leu Lys Glu Glu Ser Leu Thr Lys Arg Ala Ser Gln Tyr  
E--> 612 435 440 445  
614 Ser Gly Gln Leu Lys Val Leu Ile Ala Glu Asn Thr Met Leu Thr Ser  
E--> 615 450 455 460  
617 Lys Leu Lys Glu Lys Gln Asp Lys Glu Ile Leu Glu Ala Glu Ile Glu  
E--> 618 465 470 475 480  
620 Ser His His Pro Arg Leu Ala Ser Ala Val Gln Asp His Asp Gln Ile  
E--> 621 485 490 495  
623 Val Thr Ser Arg Lys Ser Gln Glu Pro Ala Phe His Ile Ala Gly Asp  
E--> 624 500 505 510  
626 Ala Cys Leu Gln Arg Lys Met Asn Val Asp Val Ser Ser Thr Asp Ile  
E--> 627 515 520 525

numbers of

J

PYT

**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

VERIFICATION SUMMARY DATE: 07/12/2000  
 PATENT APPLICATION: US/09/451,739A TIME: 15:56:27

Input Set : A:\lud-5615.txt  
 Output Set: N:\CRF3\07122000\I451739A.raw

L:25 M:283 W: Missing Blank Line separator, <220> field identifier  
 L:28 M:283 W: Missing Blank Line separator, <400> field identifier  
 L:35 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:1  
 L:35 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:1  
 L:86 M:283 W: Missing Blank Line separator, <220> field identifier  
 L:87 M:283 W: Missing Blank Line separator, <400> field identifier  
 L:133 M:283 W: Missing Blank Line separator, <220> field identifier  
 L:134 M:283 W: Missing Blank Line separator, <400> field identifier  
 L:166 M:283 W: Missing Blank Line separator, <220> field identifier  
 L:167 M:283 W: Missing Blank Line separator, <400> field identifier  
 L:203 M:283 W: Missing Blank Line separator, <220> field identifier  
 L:204 M:283 W: Missing Blank Line separator, <400> field identifier  
 L:264 M:283 W: Missing Blank Line separator, <220> field identifier  
 L:265 M:283 W: Missing Blank Line separator, <400> field identifier  
 L:313 M:283 W: Missing Blank Line separator, <220> field identifier  
 L:314 M:283 W: Missing Blank Line separator, <400> field identifier  
 L:365 M:283 W: Missing Blank Line separator, <220> field identifier  
 L:368 M:283 W: Missing Blank Line separator, <400> field identifier  
 L:391 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:8  
 L:391 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:8  
 L:400 M:283 W: Missing Blank Line separator, <220> field identifier  
 L:401 M:283 W: Missing Blank Line separator, <400> field identifier  
 L:409 M:283 W: Missing Blank Line separator, <220> field identifier  
 L:410 M:283 W: Missing Blank Line separator, <400> field identifier  
 L:418 M:283 W: Missing Blank Line separator, <220> field identifier  
 L:419 M:283 W: Missing Blank Line separator, <400> field identifier  
 L:427 M:283 W: Missing Blank Line separator, <220> field identifier  
 L:428 M:283 W: Missing Blank Line separator, <400> field identifier  
 L:436 M:283 W: Missing Blank Line separator, <220> field identifier  
 L:437 M:283 W: Missing Blank Line separator, <400> field identifier  
 L:445 M:283 W: Missing Blank Line separator, <220> field identifier  
 L:446 M:283 W: Missing Blank Line separator, <400> field identifier  
 L:454 M:283 W: Missing Blank Line separator, <220> field identifier  
 L:457 M:283 W: Missing Blank Line separator, <400> field identifier  
 L:512 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:15  
 L:512 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:15  
 L:516 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:15  
 L:516 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:15  
 L:520 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:15  
 L:520 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:15  
 L:522 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:15  
 L:522 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:15  
 L:524 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:15  
 L:524 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:15  
 L:531 M:283 W: Missing Blank Line separator, <220> field identifier  
 L:532 M:283 W: Missing Blank Line separator, <400> field identifier  
 L:579 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:16  
 L:582 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:16

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VERIFICATION SUMMARY DATE: 07/12/2000  
PATENT APPLICATION: US/09/451,739A TIME: 15:56:27

Input Set : A:\lud-5615.txt  
Output Set: N:\CRF3\07122000\I451739A.raw

L:585 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:16  
L:588 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:16  
L:591 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:16  
L:594 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:16  
L:597 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:16  
L:600 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:16  
L:603 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:16  
L:606 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:16  
L:609 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:16  
L:612 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:16  
L:615 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:16  
L:618 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:16  
L:621 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:16  
L:624 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:16  
L:627 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:16  
L:627 M:252 E: No. of Seq. differs, <211>LENGTH:Input:528 Found:512 SEQ:16  
L:634 M:283 W: Missing Blank Line separator, <220> field identifier  
L:635 M:283 W: Missing Blank Line separator, <400> field identifier  
L:643 M:283 W: Missing Blank Line separator, <220> field identifier  
L:644 M:283 W: Missing Blank Line separator, <400> field identifier  
L:652 M:283 W: Missing Blank Line separator, <220> field identifier  
L:653 M:283 W: Missing Blank Line separator, <400> field identifier